CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/BU/CSR-6/863/CEMENT/2015-16 Date: 11.06.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
*AGENCY	:	**Mr. B. Umesh,** No.127, 3rd Cross, Ramaiah Enclave, Bangalore – 560073.
*NAME OF THE WORK	:	Improvements to footpath 8th, 7th Cross Roads of 3rd Main Road, in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 09.06.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	09.06.2015
PERIOD OF TESTING	:	09.06.2015 to 11.06.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any queries regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH .C
Quality Manager

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/W.No.13/BU/CSR-6/863/SAND-Gradation/2015-16 : 11.06.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Mr. B. Umesh,** No.127, 3rd Cross, Ramaiah Enclave, Bangalore – 560073.
* Name of Work	: Improvements to footpath 8th, 7th Cross Roads of 3rd Main Road, in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 09.06.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 09.06.2015
Date of Testing	: 11.06.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.00	90-100	90-100	90-100	95-100
2.36	70.00	60-95	75-100	85-100	95-100
1.18	47.00	30-70	55-90	75-100	90-100
600 Micron	24.50	15-34	35-59	60-79	80-100
300 Micron	12.00	5-20	8-30	12-40	15-50
150 Micron	6.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

AE - 13

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.13/BU/CSR-6/863/AGG/GR/2015-16 : 11.06.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Mr. B. Umesh,** No.127, 3rd Cross, Ramaiah Enclave, Bangalore – 560073.
* Name of Work	: Improvements to footpath 8th, 7th Cross Roads of 3rd Main Road, in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 09.06.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 09.06.2015
Date of Testing	: 11.06.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.15	95-100	85-100
20	46.15	30-70	0-20
10	17.15	10-35	0-5
4.75	2.15	0-5	-

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ನಾಗರಭಾವಿ ಬೆಂಗಳೂರು

Information Furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

Civil-Tech Consultants & Engineers Bangalore

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T-2377

Job No.: CTCE/BBMP/W.No.13/BU/CSR-6/863/CC Solid Block/2015-16 : 20.06.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Mr. B. Umesh,** No.127, 3rd Cross, Ramaiah Enclave, Bangalore – 560073.
* Name of the Work	: Improvements to footpath 8th, 7th Cross Roads of 3rd Main Road, in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 09.06.2015
Sample Received on	: 15.06.2015
Date of Testing	: 20.06.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.25	259.2	3.24	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.62	260.1	3.25	
3	Block 3	36.20	261.3	3.27	
4	Block 4	34.85	262.3	3.28	
5	Block 5	35.62	263.4	3.29	
6	Block 6	36.21	264.1	3.30	
7	Block 7	34.52	262.5	3.28	
8	Block 8	36.20	260.8	3.26	

*Information is furnished by the Customer/Representative.

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

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T-2377

Job No.: CTCE/BBMP/W.No.13/BU/CSR-6/863/CC Solid Block/2015-16 : 20.06.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Mr. B. Umesh,** No.127, 3rd Cross, Ramaiah Enclave, Bangalore – 560073.
* Name of the Work	: Improvements to footpath 8th, 7th Cross Roads of 3rd Main Road, in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 09.06.2015
Sample Received on	: 15.06.2015
Date of Testing	: 20.06.2015
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.36	196.2	3.27	
2	Block 2	25.10	197.2	3.29	
3	Block 3	25.32	198.1	3.30	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
4	Block 4	24.95	196.5	3.28	
5	Block 5	25.36	197.2	3.29	
6	Block 6	24.90	193.6	3.23	
7	Block 7	26.31	194.8	3.25	
8	Block 8	25.95	195.6	3.26	

*Information is furnished by the Customer/Representative.

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಪೀಣ್ಯ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃ. ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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T-2377

Job No.: CTCE/BBMP/W.No.13/BU/CSR-6/863/CUBE/2015-16 21.07.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Mr. B. Umesh,** No.127, 3rd Cross, Ramaiah Enclave, Bangalore – 560073.
* Name of the work	: Improvements to footpath 8th, 7th Cross Roads of 3rd Main Road, in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 09.06.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 23.06.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2015	21.07.2015	8.199	356.3	15.84
2	23.06.2015	21.07.2015	8.258	365.3	16.24
3	23.06.2015	21.07.2015	8.365	378.2	16.81

* Information is furnished by the Customer/Representative

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VISHWANATH. I.A.
Chief Executive Officer

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು

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